SEQUENCE LISTING

<110> Sims, John E.
Mohler, Kendall M.
Born, Teresa L.

<120> METHODS FOR TREATING IL-18 MEDIATED DISORDERS

<130> 3086-A

<140> --to be assigned--
<141> 2001-10-17

<150> US 60/241,408
<151> 2000-10-18

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<170> PatentIn version 3.1

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aaaacactct actctggcaa aggaatgaag ttattggagt gatgacagga acacgggaga 480

aca atg ctc tgt ttg ggc tgg ata ttt ctt tgg ctt gtt gca gga gag 528
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cga att aaa gga ttt aat att tca ggt tgt tcc aca aaa aaa ctc ctt 576
Arg Ile Lys Gly Phe Asn Ile Ser Gly Cys Ser Thr Lys Lys Leu Leu
20 25 30

tgg aca tat tct aca agg agt gaa gag gaa ttt gtc tta ttt tgt gat 624
Trp Thr Tyr Ser Thr Arg Ser Glu Glu Glu Phe Val Leu Phe Cys Asp
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tta cca gag cca cag aaa tca cat ttc tgc cac aga aat cga ctc tca      672
Leu Pro Glu Pro Gln Lys Ser His Phe Cys His Arg Asn Arg Leu Ser
        50                  55                  60

cca aaa caa gtc cct gag cac ctg ccc ttc atg ggt agt aac gac cta      720
Pro Lys Gln Val Pro Glu His Leu Pro Phe Met Gly Ser Asn Asp Leu
    65                  70                  75

tct gat gtc caa tgg tac caa caa cct tcg aat gga gat cca tta gag      768
Ser Asp Val Gln Trp Tyr Gln Gln Pro Ser Asn Gly Asp Pro Leu Glu
80                  85                  90                  95

gac att agg aaa agc tat cct cac atc att cag gac aaa tgt acc ctt      816
Asp Ile Arg Lys Ser Tyr Pro His Ile Ile Gln Asp Lys Cys Thr Leu
                100                 105                 110

cac ttt ttg acc cca ggg gtg aat aat tct ggg tca tat att tgt aga      864
His Phe Leu Thr Pro Gly Val Asn Asn Ser Gly Ser Tyr Ile Cys Arg
            115                 120                 125

ccc aag atg att aag agc ccc tat gat gta gcc tgt tgt gtc aag atg      912
Pro Lys Met Ile Lys Ser Pro Tyr Asp Val Ala Cys Cys Val Lys Met
        130                 135                 140

att tta gaa gtt aag ccc cag aca aat gca tcc tgt gag tat tcc gca      960
Ile Leu Glu Val Lys Pro Gln Thr Asn Ala Ser Cys Glu Tyr Ser Ala
    145                 150                 155

tca cat aag caa gac cta ctt ctt ggg agc act ggc tct att tct tgc     1008
Ser His Lys Gln Asp Leu Leu Leu Gly Ser Thr Gly Ser Ile Ser Cys
160                 165                 170                 175

ccc agt ctc agc tgc caa agt gat gca caa agt cca gcg gta acc tgg     1056
Pro Ser Leu Ser Cys Gln Ser Asp Ala Gln Ser Pro Ala Val Thr Trp
                180                 185                 190

tac aag aat gga aaa ctc ctc tct gtg gaa agg agc aac cga atc gta     1104
Tyr Lys Asn Gly Lys Leu Leu Ser Val Glu Arg Ser Asn Arg Ile Val
            195                 200                 205

gtg gat gaa gtt tat gac tat cac cag ggc aca tat gta tgt gat tac     1152
Val Asp Glu Val Tyr Asp Tyr His Gln Gly Thr Tyr Val Cys Asp Tyr
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act cag tcg gat act gtg agt tcg tgg aca gtc aga gct gtt gtt caa     1200
Thr Gln Ser Asp Thr Val Ser Ser Trp Thr Val Arg Ala Val Val Gln
    225                 230                 235

gtg aga acc att gtg gga gac act aaa ctc aaa cca gat att ctg gat     1248
Val Arg Thr Ile Val Gly Asp Thr Lys Leu Lys Pro Asp Ile Leu Asp
240                 245                 250                 255

cct gtc gag gac aca ctg gaa gta gaa ctt gga aag cct tta act att     1296
Pro Val Glu Asp Thr Leu Glu Val Glu Leu Gly Lys Pro Leu Thr Ile
                260                 265                 270

agc tgc aaa gca cga ttt ggc ttt gaa agg gtc ttt aac cct gtc ata     1344
Ser Cys Lys Ala Arg Phe Gly Phe Glu Arg Val Phe Asn Pro Val Ile
            275                 280                 285
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aaa tgg tac atc aaa gat tct gac cta gag tgg gaa gtc tca gta cct 1392
Lys Trp Tyr Ile Lys Asp Ser Asp Leu Glu Trp Glu Val Ser Val Pro
290 295 300

gag gcg aaa agt att aaa tcc act tta aag gat gaa atc att gag cgt 1440
Glu Ala Lys Ser Ile Lys Ser Thr Leu Lys Asp Glu Ile Ile Glu Arg
305 310 315

aat atc atc ttg gaa aaa gtc act cag cgt gat ctt cgc agg aag ttt 1488
Asn Ile Ile Leu Glu Lys Val Thr Gln Arg Asp Leu Arg Arg Lys Phe
320 325 330 335

gtt tgc ttt gtc cag aac tcc att gga aac aca acc cag tcc gtc caa 1536
Val Cys Phe Val Gln Asn Ser Ile Gly Asn Thr Thr Gln Ser Val Gln
340 345 350

ctg aaa gaa aag aga gga gtg gtg ctc ctg tac atc ctg ctt ggc acc 1584
Leu Lys Glu Lys Arg Gly Val Val Leu Leu Tyr Ile Leu Leu Gly Thr
355 360 365

atc ggg acc ctg gtg gcc gtg ctg gcg gcg agt gcc ctc ctc tac agg 1632
Ile Gly Thr Leu Val Ala Val Leu Ala Ala Ser Ala Leu Leu Tyr Arg
370 375 380

cac tgg att gaa ata gtg ctg ctg tac cgg acc tac cag agc aag gat 1680
His Trp Ile Glu Ile Val Leu Leu Tyr Arg Thr Tyr Gln Ser Lys Asp
385 390 395

cag acg ctt ggg gat aaa aag gat ttt gat gct ttc gta tcc tat gca 1728
Gln Thr Leu Gly Asp Lys Lys Asp Phe Asp Ala Phe Val Ser Tyr Ala
400 405 410 415

aaa tgg agc tct ttt cca agt gag gcc act tca tct ctg agt gaa gaa 1776
Lys Trp Ser Ser Phe Pro Ser Glu Ala Thr Ser Ser Leu Ser Glu Glu
420 425 430

cac ttg gcc ctg agc cta ttt cct gat gtt tta gaa aac aaa tat gga 1824
His Leu Ala Leu Ser Leu Phe Pro Asp Val Leu Glu Asn Lys Tyr Gly
435 440 445

tat agc ctg tgt ttg ctt gaa aga gat gtg gct cca gga gga gtg tat 1872
Tyr Ser Leu Cys Leu Leu Glu Arg Asp Val Ala Pro Gly Gly Val Tyr
450 455 460

gca gaa gac att gtg agc att att aag aga agc aga aga gga ata ttt 1920
Ala Glu Asp Ile Val Ser Ile Ile Lys Arg Ser Arg Arg Gly Ile Phe
465 470 475

atc ttg agc ccc aac tat gtc aat gga ccc agt atc ttt gaa cta caa 1968
Ile Leu Ser Pro Asn Tyr Val Asn Gly Pro Ser Ile Phe Glu Leu Gln
480 485 490 495

gca gca gtg aat ctt gcc ttg gat gat caa aca ctg aaa ctc att tta 2016
Ala Ala Val Asn Leu Ala Leu Asp Asp Gln Thr Leu Lys Leu Ile Leu
500 505 510

att aag ttc tgt tac ttc caa gag cca gag tct cta cct cat ctc gtg 2064
Ile Lys Phe Cys Tyr Phe Gln Glu Pro Glu Ser Leu Pro His Leu Val
515 520 525

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aaa aaa gct ctc agg gtt ttg ccc aca gtt act tgg aga ggc tta aaa     2112
Lys Lys Ala Leu Arg Val Leu Pro Thr Val Thr Trp Arg Gly Leu Lys
        530                 535                 540

tca gtt cct ccc aat tct agg ttc tgg gcc aaa atg cgc tac cac atg     2160
Ser Val Pro Pro Asn Ser Arg Phe Trp Ala Lys Met Arg Tyr His Met
    545                 550                 555

cct gtg aaa aac tct cag gga ttc acg tgg aac cag ctc aga att acc     2208
Pro Val Lys Asn Ser Gln Gly Phe Thr Trp Asn Gln Leu Arg Ile Thr
560                 565                 570                 575

tct agg att ttt cag tgg aaa gga ctc agt aga aca gaa acc act ggg     2256
Ser Arg Ile Phe Gln Trp Lys Gly Leu Ser Arg Thr Glu Thr Thr Gly
                580                 585                 590

agg agc tcc cag cct aag gaa tgg tga aatgagccct ggagcccccc           2303
Arg Ser Ser Gln Pro Lys Glu Trp
            595

ccagtccagt ccctgggata gagatgttgc tggacagaac tcacagctct gtgtgtgtgt   2363

gttcaggctg ataggaaatt caaagagtct cctgccagca ccaagcaagc ttgatggaca   2423

atggaatggg attgagactg tggtttagag cctttgattt cctggactgg acagacggcg   2483

agtgaattct ctagaccttg ggtactttca gtacacaaca cccctaagat ttcccagtgg   2543

tccgagcaga atcagaaaat acagctactt ctgccttatg gctagggaac tgtcatgtct   2603

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            20                  25                  30

Thr Tyr Ser Thr Arg Ser Glu Glu Glu Phe Val Leu Phe Cys Asp Leu
        35                  40                  45

Pro Glu Pro Gln Lys Ser His Phe Cys His Arg Asn Arg Leu Ser Pro
    50                  55                  60

Lys Gln Val Pro Glu His Leu Pro Phe Met Gly Ser Asn Asp Leu Ser
65                  70                  75                  80
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Asp Val Gln Trp Tyr Gln Gln Pro Ser Asn Gly Asp Pro Leu Glu Asp
                85                  90                  95

Ile Arg Lys Ser Tyr Pro His Ile Ile Gln Asp Lys Cys Thr Leu His
            100                 105                 110

Phe Leu Thr Pro Gly Val Asn Asn Ser Gly Ser Tyr Ile Cys Arg Pro
        115                 120                 125

Lys Met Ile Lys Ser Pro Tyr Asp Val Ala Cys Cys Val Lys Met Ile
    130                 135                 140

Leu Glu Val Lys Pro Gln Thr Asn Ala Ser Cys Glu Tyr Ser Ala Ser
145                 150                 155                 160

His Lys Gln Asp Leu Leu Leu Gly Ser Thr Gly Ser Ile Ser Cys Pro
                165                 170                 175

Ser Leu Ser Cys Gln Ser Asp Ala Gln Ser Pro Ala Val Thr Trp Tyr
            180                 185                 190

Lys Asn Gly Lys Leu Leu Ser Val Glu Arg Ser Asn Arg Ile Val Val
        195                 200                 205

Asp Glu Val Tyr Asp Tyr His Gln Gly Thr Tyr Val Cys Asp Tyr Thr
    210                 215                 220

Gln Ser Asp Thr Val Ser Ser Trp Thr Val Arg Ala Val Val Gln Val
225                 230                 235                 240

Arg Thr Ile Val Gly Asp Thr Lys Leu Lys Pro Asp Ile Leu Asp Pro
                245                 250                 255

Val Glu Asp Thr Leu Glu Val Glu Leu Gly Lys Pro Leu Thr Ile Ser
            260                 265                 270

Cys Lys Ala Arg Phe Gly Phe Glu Arg Val Phe Asn Pro Val Ile Lys
        275                 280                 285

Trp Tyr Ile Lys Asp Ser Asp Leu Glu Trp Glu Val Ser Val Pro Glu
    290                 295                 300

Ala Lys Ser Ile Lys Ser Thr Leu Lys Asp Glu Ile Ile Glu Arg Asn
305                 310                 315                 320
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Ile Ile Leu Glu Lys Val Thr Gln Arg Asp Leu Arg Arg Lys Phe Val
325 330 335

Cys Phe Val Gln Asn Ser Ile Gly Asn Thr Thr Gln Ser Val Gln Leu
340 345 350

Lys Glu Lys Arg Gly Val Val Leu Leu Tyr Ile Leu Leu Gly Thr Ile
355 360 365

Gly Thr Leu Val Ala Val Leu Ala Ala Ser Ala Leu Leu Tyr Arg His
370 375 380

Trp Ile Glu Ile Val Leu Leu Tyr Arg Thr Tyr Gln Ser Lys Asp Gln
385 390 395 400

Thr Leu Gly Asp Lys Lys Asp Phe Asp Ala Phe Val Ser Tyr Ala Lys
405 410 415

Trp Ser Ser Phe Pro Ser Glu Ala Thr Ser Ser Leu Ser Glu Glu His
420 425 430

Leu Ala Leu Ser Leu Phe Pro Asp Val Leu Glu Asn Lys Tyr Gly Tyr
435 440 445

Ser Leu Cys Leu Leu Glu Arg Asp Val Ala Pro Gly Gly Val Tyr Ala
450 455 460

Glu Asp Ile Val Ser Ile Ile Lys Arg Ser Arg Arg Gly Ile Phe Ile
465 470 475 480

Leu Ser Pro Asn Tyr Val Asn Gly Pro Ser Ile Phe Glu Leu Gln Ala
485 490 495

Ala Val Asn Leu Ala Leu Asp Asp Gln Thr Leu Lys Leu Ile Leu Ile
500 505 510

Lys Phe Cys Tyr Phe Gln Glu Pro Glu Ser Leu Pro His Leu Val Lys
515 520 525

Lys Ala Leu Arg Val Leu Pro Thr Val Thr Trp Arg Gly Leu Lys Ser
530 535 540

Val Pro Pro Asn Ser Arg Phe Trp Ala Lys Met Arg Tyr His Met Pro
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Val Lys Asn Ser Gln Gly Phe Thr Trp Asn Gln Leu Arg Ile Thr Ser
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agc act gca gaa tct tgt act tca cgt ccc cac att act gtg gtt gaa       96
Ser Thr Ala Glu Ser Cys Thr Ser Arg Pro His Ile Thr Val Val Glu
            20                  25                  30

ggg gaa cct ttc tat ctg aaa cat tgc tcg tgt tca ctt gca cat gag      144
Gly Glu Pro Phe Tyr Leu Lys His Cys Ser Cys Ser Leu Ala His Glu
        35                  40                  45

att gaa aca acc acc aaa agc tgg tac aaa agc agt gga tca cag gaa      192
Ile Glu Thr Thr Thr Lys Ser Trp Tyr Lys Ser Ser Gly Ser Gln Glu
    50                  55                  60

cat gtg gag ctg aac cca agg agt tcc tcg aga att gct ttg cat gat      240
His Val Glu Leu Asn Pro Arg Ser Ser Ser Arg Ile Ala Leu His Asp
65                  70                  75                  80

tgt gtt ttg gag ttt tgg cca gtt gag ttg aat gac aca gga tct tac      288
Cys Val Leu Glu Phe Trp Pro Val Glu Leu Asn Asp Thr Gly Ser Tyr
                85                  90                  95

ttt ttc caa atg aaa aat tat act cag aaa tgg aaa tta aat gtc atc      336
Phe Phe Gln Met Lys Asn Tyr Thr Gln Lys Trp Lys Leu Asn Val Ile
            100                 105                 110

aga aga aat aaa cac agc tgt ttc act gaa aga caa gta act agt aaa      384
Arg Arg Asn Lys His Ser Cys Phe Thr Glu Arg Gln Val Thr Ser Lys
        115                 120                 125

att gtg gaa gtt aaa aaa ttt ttt cag ata acc tgt gaa aac agt tac      432
Ile Val Glu Val Lys Lys Phe Phe Gln Ile Thr Cys Glu Asn Ser Tyr
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tat caa aca ctg gtc aac agc aca tca ttg tat aag aac tgt aaa aag      480
Tyr Gln Thr Leu Val Asn Ser Thr Ser Leu Tyr Lys Asn Cys Lys Lys
145                 150                 155                 160

cta cta ctg gag aac aat aaa aac cca acg ata aag aag aac gcc gag      528
Leu Leu Leu Glu Asn Asn Lys Asn Pro Thr Ile Lys Lys Asn Ala Glu
                165                 170                 175

ttt gaa gat cag ggg tat tac tcc tgc gtg cat ttc ctt cat cat aat      576
Phe Glu Asp Gln Gly Tyr Tyr Ser Cys Val His Phe Leu His His Asn
            180                 185                 190

gga aaa cta ttt aat atc acc aaa acc ttc aat ata aca ata gtg gaa      624
Gly Lys Leu Phe Asn Ile Thr Lys Thr Phe Asn Ile Thr Ile Val Glu
        195                 200                 205

gat cgc agt aat ata gtt ccg gtt ctt ctt gga cca aag ctt aac cat      672
Asp Arg Ser Asn Ile Val Pro Val Leu Leu Gly Pro Lys Leu Asn His
    210                 215                 220

gtt gca gtg gaa tta gga aaa aac gta agg ctc aac tgc tct gct ttg      720
Val Ala Val Glu Leu Gly Lys Asn Val Arg Leu Asn Cys Ser Ala Leu
225                 230                 235                 240

ctg aat gaa gag gat gta att tat tgg atg ttt ggg gaa gaa aat gga      768
Leu Asn Glu Glu Asp Val Ile Tyr Trp Met Phe Gly Glu Glu Asn Gly
                245                 250                 255

tcg gat cct aat ata cat gaa gag aaa gaa atg aga att atg act cca      816
Ser Asp Pro Asn Ile His Glu Glu Lys Glu Met Arg Ile Met Thr Pro
            260                 265                 270

gaa ggc aaa tgg cat gct tca aaa gta ttg aga att gaa aat att ggt      864
Glu Gly Lys Trp His Ala Ser Lys Val Leu Arg Ile Glu Asn Ile Gly
        275                 280                 285

gaa agc aat cta aat gtt tta tat aat tgc act gtg gcc agc acg gga      912
Glu Ser Asn Leu Asn Val Leu Tyr Asn Cys Thr Val Ala Ser Thr Gly
    290                 295                 300

ggc aca gac acc aaa agc ttc atc ttg gtg aga aaa gca gac atg gct      960
Gly Thr Asp Thr Lys Ser Phe Ile Leu Val Arg Lys Ala Asp Met Ala
305                 310                 315                 320

gat atc cca ggc cac gtc ttc aca aga gga atg atc ata gct gtt ttg     1008
Asp Ile Pro Gly His Val Phe Thr Arg Gly Met Ile Ile Ala Val Leu
                325                 330                 335

atc ttg gtg gca gta gtg tgc cta gtg act gtg tgt gtc att tat aga     1056
Ile Leu Val Ala Val Val Cys Leu Val Thr Val Cys Val Ile Tyr Arg
            340                 345                 350

gtt gac ttg gtt cta ttt tat aga cat tta acg aga aga gat gaa aca     1104
Val Asp Leu Val Leu Phe Tyr Arg His Leu Thr Arg Arg Asp Glu Thr
        355                 360                 365

tta aca gat gga aaa aca tat gat gct ttt gtg tct tac cta aaa gaa     1152
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    370                 375                 380
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tgc cga cct gaa aat gga gag gag cac acc ttt gct gtg gag att ttg     1200
Cys Arg Pro Glu Asn Gly Glu Glu His Thr Phe Ala Val Glu Ile Leu
385                 390                 395                 400

ccc agg gtg ttg gag aaa cat ttt ggg tat aag tta tgc ata ttt gaa     1248
Pro Arg Val Leu Glu Lys His Phe Gly Tyr Lys Leu Cys Ile Phe Glu
                405                 410                 415

agg gat gta gtg cct gga gga gct gtt gtt gat gaa atc cac tca ctg     1296
Arg Asp Val Val Pro Gly Gly Ala Val Val Asp Glu Ile His Ser Leu
            420                 425                 430

ata gag aaa agc cga aga cta atc att gtc cta agt aaa agt tat atg     1344
Ile Glu Lys Ser Arg Arg Leu Ile Ile Val Leu Ser Lys Ser Tyr Met
        435                 440                 445

tct aat gag gtc agg tat gaa ctt gaa agt gga ctc cat gaa gca ttg     1392
Ser Asn Glu Val Arg Tyr Glu Leu Glu Ser Gly Leu His Glu Ala Leu
    450                 455                 460

gtg gaa aga aaa att aaa ata atc tta att gaa ttt aca cct gtt act     1440
Val Glu Arg Lys Ile Lys Ile Ile Leu Ile Glu Phe Thr Pro Val Thr
465                 470                 475                 480

gac ttc aca ttc ttg ccc caa tca cta aag ctt ttg aaa tct cac aga     1488
Asp Phe Thr Phe Leu Pro Gln Ser Leu Lys Leu Leu Lys Ser His Arg
                485                 490                 495

gtt ctg aag tgg aag gcc gat aaa tct ctt tct tat aac tca agg ttc     1536
Val Leu Lys Trp Lys Ala Asp Lys Ser Leu Ser Tyr Asn Ser Arg Phe
            500                 505                 510

tgg aag aac ctt ctt tac tta atg cct gca aaa aca gtc aag cca ggt     1584
Trp Lys Asn Leu Leu Tyr Leu Met Pro Ala Lys Thr Val Lys Pro Gly
        515                 520                 525

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Gly Glu Pro Phe Tyr Leu Lys His Cys Ser Cys Ser Leu Ala His Glu
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Cys Val Leu Glu Phe Trp Pro Val Glu Leu Asn Asp Thr Gly Ser Tyr
85 90 95

Phe Phe Gln Met Lys Asn Tyr Thr Gln Lys Trp Lys Leu Asn Val Ile
100 105 110

Arg Arg Asn Lys His Ser Cys Phe Thr Glu Arg Gln Val Thr Ser Lys
115 120 125

Ile Val Glu Val Lys Lys Phe Phe Gln Ile Thr Cys Glu Asn Ser Tyr
130 135 140

Tyr Gln Thr Leu Val Asn Ser Thr Ser Leu Tyr Lys Asn Cys Lys Lys
145 150 155 160

Leu Leu Leu Glu Asn Asn Lys Asn Pro Thr Ile Lys Lys Asn Ala Glu
165 170 175

Phe Glu Asp Gln Gly Tyr Tyr Ser Cys Val His Phe Leu His His Asn
180 185 190

Gly Lys Leu Phe Asn Ile Thr Lys Thr Phe Asn Ile Thr Ile Val Glu
195 200 205

Asp Arg Ser Asn Ile Val Pro Val Leu Leu Gly Pro Lys Leu Asn His
210 215 220

Val Ala Val Glu Leu Gly Lys Asn Val Arg Leu Asn Cys Ser Ala Leu
225 230 235 240

Leu Asn Glu Glu Asp Val Ile Tyr Trp Met Phe Gly Glu Glu Asn Gly
245 250 255

Ser Asp Pro Asn Ile His Glu Glu Lys Glu Met Arg Ile Met Thr Pro
260 265 270

Glu Gly Lys Trp His Ala Ser Lys Val Leu Arg Ile Glu Asn Ile Gly
275 280 285

Glu Ser Asn Leu Asn Val Leu Tyr Asn Cys Thr Val Ala Ser Thr Gly
290 295 300

Gly Thr Asp Thr Lys Ser Phe Ile Leu Val Arg Lys Ala Asp Met Ala
305 310 315 320

Asp Ile Pro Gly His Val Phe Thr Arg Gly Met Ile Ile Ala Val Leu
325 330 335

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340 345 350

Val Asp Leu Val Leu Phe Tyr Arg His Leu Thr Arg Arg Asp Glu Thr
355 360 365

Leu Thr Asp Gly Lys Thr Tyr Asp Ala Phe Val Ser Tyr Leu Lys Glu
370 375 380

Cys Arg Pro Glu Asn Gly Glu Glu His Thr Phe Ala Val Glu Ile Leu
385 390 395 400

Pro Arg Val Leu Glu Lys His Phe Gly Tyr Lys Leu Cys Ile Phe Glu
405 410 415

Arg Asp Val Val Pro Gly Gly Ala Val Val Asp Glu Ile His Ser Leu
420 425 430

Ile Glu Lys Ser Arg Arg Leu Ile Ile Val Leu Ser Lys Ser Tyr Met
435 440 445

Ser Asn Glu Val Arg Tyr Glu Leu Glu Ser Gly Leu His Glu Ala Leu
450 455 460

Val Glu Arg Lys Ile Lys Ile Ile Leu Ile Glu Phe Thr Pro Val Thr
465 470 475 480

Asp Phe Thr Phe Leu Pro Gln Ser Leu Lys Leu Leu Lys Ser His Arg
485 490 495

Val Leu Lys Trp Lys Ala Asp Lys Ser Leu Ser Tyr Asn Ser Arg Phe
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35 40 45

Cys Pro Ser Gln Pro Pro Val Phe Pro Ala Ala Lys Gln Cys Pro Ala
50 55 60

Leu Glu Val Thr Trp Pro Glu Val Glu Val Pro Leu Asn Gly Thr Leu
65 70 75 80

Ser Leu Ser Cys Val Ala Cys Ser Arg Phe Pro Asn Phe Ser Ile Leu
85 90 95

Tyr Trp Leu Gly Asn Gly Ser Phe Ile Glu His Leu Pro Gly Arg Leu
100 105 110

Trp Glu Gly Ser Thr Ser Arg Glu Arg Gly Ser Thr Gly Thr Gln Leu
115 120 125

Cys Lys Ala Leu Val Leu Glu Gln Leu Thr Pro Ala Leu His Ser Thr
130 135 140

Asn Phe Ser Cys Val Leu Val Asp Pro Glu Gln Val Val Gln Arg His
145 150 155 160

Val Val Leu Ala Gln Leu Trp Ala Gly Leu Arg Ala Thr Leu Pro Pro
165 170 175

Thr Gln Glu Ala Leu Pro Ser Ser His Ser Ser Pro Gln Gln Gln Gly
180 185 190

Arg Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu
195 200 205

Ala Glu Gly Ala Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp
210 215 220

Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp
225 230 235 240

Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly
245 250 255

Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn
260 265 270

Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp
275 280 285

Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro
290 295 300

Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu
305 310 315 320

Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys Asn
325 330 335

Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile
340 345 350

Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr
355 360 365

Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys
370 375 380

Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys
385 390 395 400

Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu
405 410 415

Ser Leu Ser Pro Gly Lys
420